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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/677,517	10/02/2003	Craig R. McCrea	CM-1-am-mv	8243		
7590 10/18/2005			EXAMINER			
Michael I. Kro			NGUYEN, 1	NGUYEN, HOANG M		
171 Stillwell La Syosset, NY 1		•	ART UNIT	PAPER NUMBER		
5,05500, 111	.,,,		3748			
	,		DATE MAILED: 10/18/200.	5		

Please find below and/or attached an Office communication concerning this application or proceeding.

		l Ameliantia	- N -	Applicant(s)				
Office Action Summary		Application						
		10/677,517	,	MCCREA, CRAIG R.				
		Examiner		Art Unit				
		Hoang M. N		3748				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
WHIC - Exter after - If NO - Failu Any i	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THI 36(a). In no even will apply and will , cause the applic	S COMMUNICATION at, however, may a reply be time expire SIX (6) MONTHS from the cation to become ABANDONED	I. lely filed the mailing date of this co D (35 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) filed on 19 Se	eptember 20	<u>)05</u> .					
· · · · · · · · · · · · · · · · · · ·	This action is FINAL . 2b) This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
5)□ 6)⊠ 7)□	Claim(s) <u>1-25</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>1-25</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from cons		· .				
Applicati	on Papers							
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b)[drawing(s) be ion is required	held in abeyance. See d if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CF				
Priority u	ınder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
2) D Notic 3) D Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		Interview Summary (Paper No(s)/Mail Da Notice of Informal Pa		-152)			

Applicant's amendment dated September 19, 2005, has been fully considered.

During the personal interview dated October 11, 2005, it was agreed that Applicant's invention as described in the original specification and drawings, clearly use the term "vertical" to describe the starting position of the walking beam. Therefore, the invention seems to be inoperative if the beam starts out from that position.

Even though the Examiner agrees with Applicant's remark that if the beam starts out at the non-vertical position then the invention is working properly; however, that concept is not in the specification as originally filed. Therefore, it's agreed in the personal interview that a CIP application should be filed to correct that concept.

The previous Office Action has been repeated herein.

Claims 1-25 are rejected under 35 U.S.C. 101 because the disclosed invention is inoperative and therefore lacks utility. There are two critical aspects of this invention that may make this device inoperative.

1) The Stirling engine starts out at the vertical position with about 90 degrees angle to the horizontal plane as shown in figure 1A. At this position, no matter if the piston keeps moving up and down, there is no force in the horizontal direction to cause the cylinder of the engine to rotate. Figures 1C and 1D show the same problem because the cylinder is at the vertical position.

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2) It does not seem like the output force can be transferred to the output shafts because even if the cylinder rotates, the pivot clamps moves, not the shafts. If both move at the same time, it's difficult for the cylinder to rotate.

Claims 1-25 are also rejected under 35 U.S.C. 112, first paragraph. Specifically, since the claimed invention is not supported by either a well asserted utility or a well established utility for the reasons set forth above, one skilled in the art clearly would not know how to use the claimed invention.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Examiner Nguyen whose telephone number is (571) 272-4861. The examiner can normally be reached on Tuesday--Friday from 12:30 AM to 10:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Denion, can be reached on (571)-272-4859. The fax phone number for the Examiner is (703) 872-9306 for regular communication, and (703) 872-9303 for after final communication.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-3700.

HOANĠ NGUYEN PRIMARY EXAMINER ART UNIT 3748

Hoang Minh Nguyen 10/15/2005